

Operating instructions for HESTAL pillar system **VarioMaster 902 + 903**

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1. General information

The HESTAL VarioMaster 902 and 903 CS pillar system is intended for use as a removable support pillar between the vehicle frame and the roof profile in commercial vehicle bodies

2. Regulations

The following regulations and directives need to be complied with:
DGUV regulation 1 "Accident Prevention Regulation - Principles of Prevention" (formerly BGV A1)
DGUV regulation 70 "Vehicles" (formerly BGV D 29)
DGUV principles "The testing of vehicles by drivers" (formerly BGG 915)
DGUV principles "The testing of vehicles by skilled technicians" (formerly BGG 916)
DGUV rules "Vehicle repair and maintenance" (formerly BGR 157)
StVZO (German Road Traffic Act)
VDI directive 2700 "Securing loads on road vehicles"
Body guidelines established by the vehicle manufacturer

3. Technical description of the system

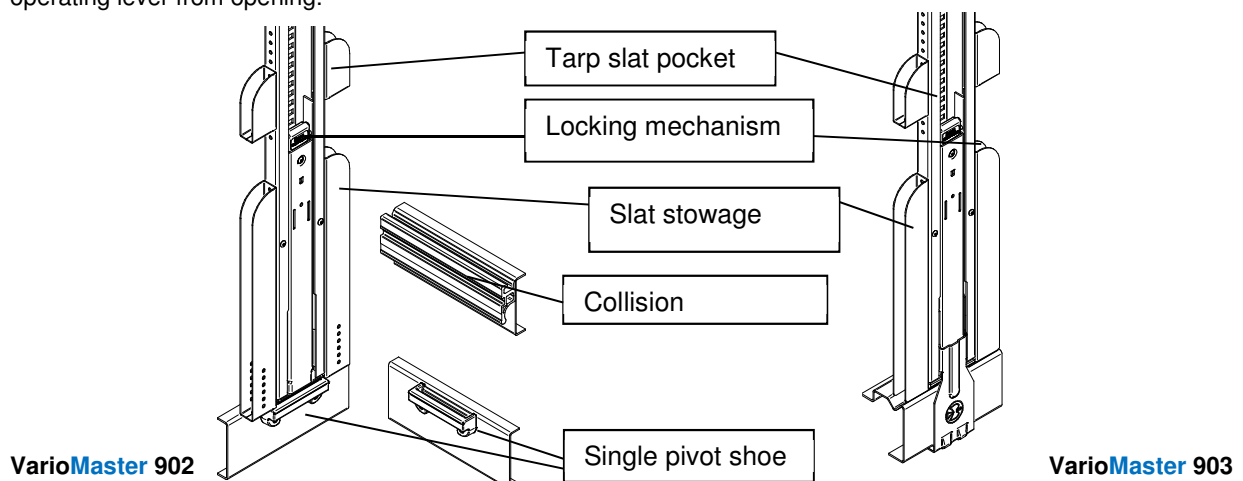
The HESTAL VarioMaster 902 and 903 CS pillar system is used as a centre pillar in a vehicle body, allowing for the rapid clearance of the loadbed.

The HESTAL VarioMaster 902 CS pillar system locks onto the side of the vehicle frame by way of the support foot in the aluminium collision protection profile or by way of the single pivot shoe; the VarioMaster 903 locks by way of the support foot and the mounting bracket in the vehicle frame.

When in its closed position, the VarioMaster 902 curtainsider pillar is secured in two ways:

1. by means of a flush-fitting locking mechanism that prevents the operating lever from opening.
2. by means of the over-dead-point position of the hand lever.

The VarioMaster 903 curtainsider pillar is secured easily by means of a flush-fitting locking mechanism that prevents the operating lever from opening.



4. Opening and closing the system

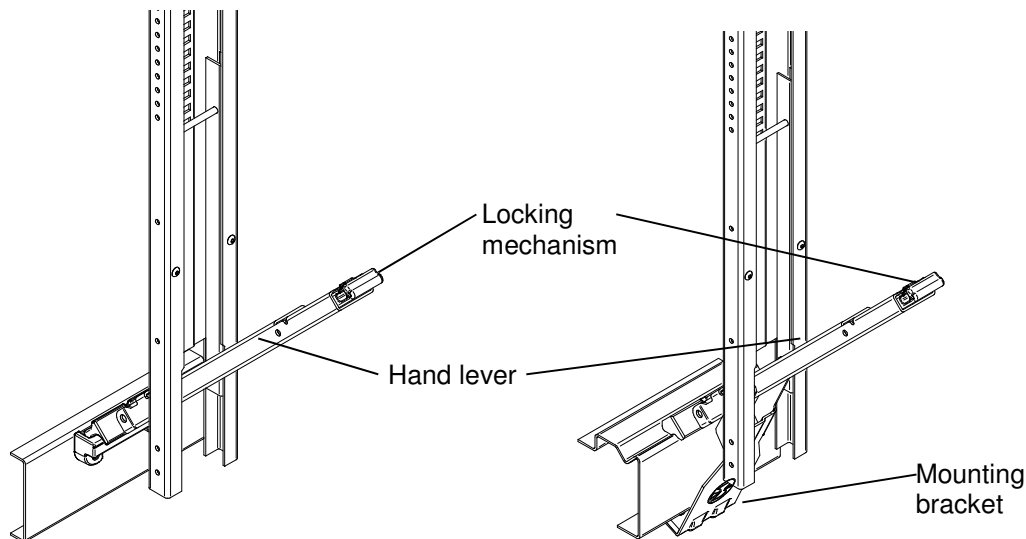
Opening:

- Before the pillars are opened, any existing load pressure must first be removed. The lateral tarpaulin boards must be unhooked and removed.
- Press the locking button down.
- Pull the hand lever out of the pillar profile.
- Take hold of hand lever and swing further down.
- For the VarioMaster 903 also take hold of the mounting bracket and guide it.
- **The hand lever is pushed out of the body of the pillar due to the pillar sinking from the weight of the roof! Here it is necessary for the operator to apply an increased counterforce!**
- Pull out the pillar and close the hand lever again (engage locking mechanism).
- **When opening the stanchion do not let it fall (rollers could be damaged).**



VarioMaster 902

VarioMaster 903



Lateral movement:

- A protruding load may obstruct the movement of the pillar.
- Swing the pillar slightly away from the vehicle frame, and move it sideways.
- Swinging the pillar away from the vehicle frame further than necessary may cause the trolley or telescopic element to jam inside the roof edge profile.

Closing:

- Push the VarioMaster to its allotted position on the vehicle frame, press the locking button, and open the hand lever
- For the VarioMaster 902 mount the support foot into the collision protection profile or the single pivot shoe, and for the VarioMaster 903 into the frame.
- For the VarioMaster 903 put the mounting bracket against the frame.
- Press the hand lever into the pillar until the locking mechanism automatically re-engages.
- **The curtainsider pillar must be at right angles to the vehicle frame!**



5. Operation / adjustment of the plug-in attachment unit for the second driving position (only in connection with telescopic element)

The plug-in unit for setting a second driving position is installed inside the pillar profile and can be adjusted on a 20 mm grid pattern.

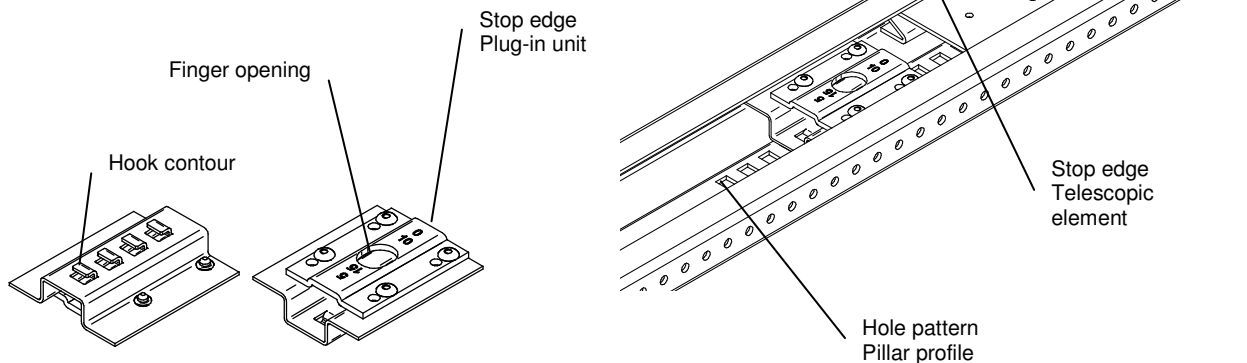
Before adjusting the unit, make sure it is **not under load**, which means that the telescopic pillar must not be in contact with the plug-in unit.

Slide the plug-in fastener up and lift the hook contour out of the pillar profile

You can now adjust the height of the plug-in unit

Hook the plug-in unit back into the pillar profile in its new position

You have now adjusted the VarioMaster system to a new overall length



When adjusting the overall length, make sure not to exceed the maximum permissible overall vehicle height of 4.0 metres (see StVZO §32 Abs.2)

6. Operation

- Prior to every journey, check if the VarioMaster system is closed properly.
- Secure the load.
- When working in traffic, wear a suitable reflective vest.
- No part of the load must protrude beyond the limit of the outside vehicle frame.
- The vehicle's roof must be cleared of any loads (ice and snow).

7. Maintenance

- The VarioMaster system must be serviced on a regular basis depending on how much and for how long it has been used. (cleaning, removal of foreign objects, lubrication, adjustment, checking all screws and bolts for a tight fit, replacing parts subject to wear)
- Any warped tarpaulin and stowage pockets must be replaced with new ones by specialist technicians.
- Use only genuine HESTAL spare parts!
- Any defective or damaged components must be replaced immediately with genuine HESTAL parts.
- See also DGUV regulation 70 "Vehicles" (formerly BGV D 29)

8. Important instructions

The VarioMaster system will only function perfectly if all installation and operating instructions are followed closely.

For reasons of operational safety, road safety, as well as operational health and safety, you must not combine any components other than the HESTAL components shown here.

When properly installed, these cutainsider pillars comply with the DGUV regulation 70 "Vehicles" (formerly BGV D 29)